

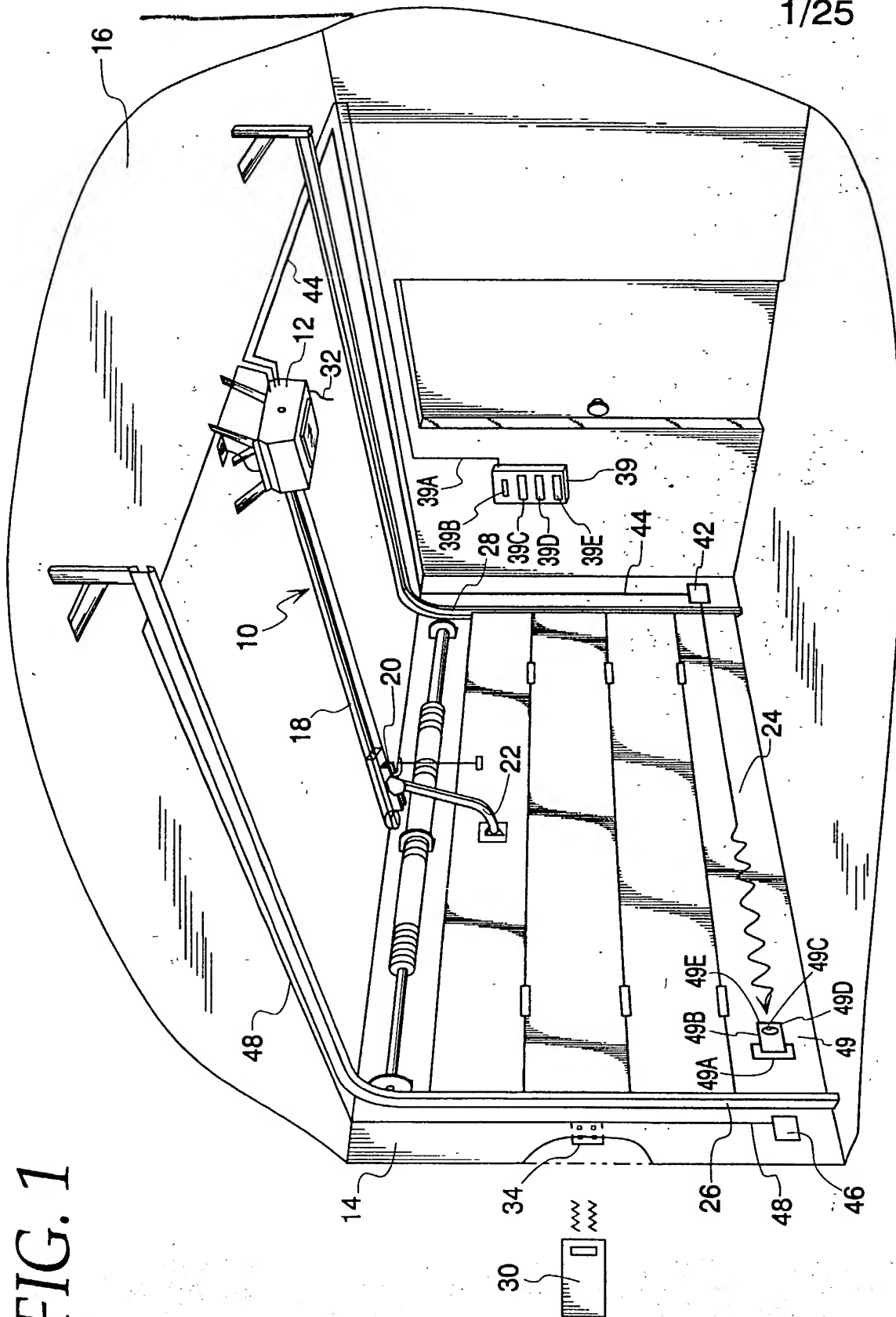
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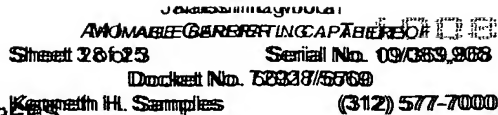
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FIG. 1





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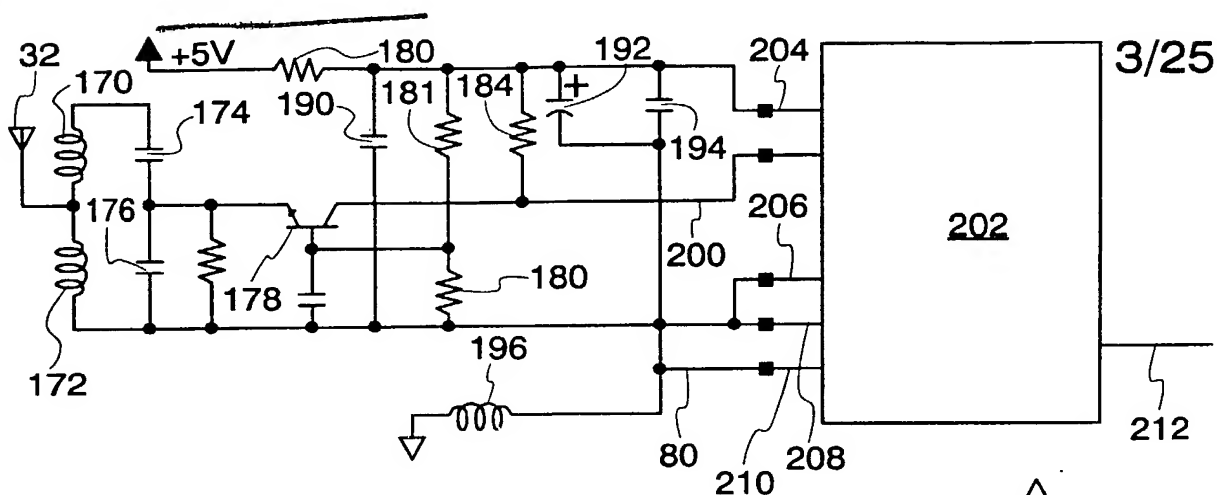
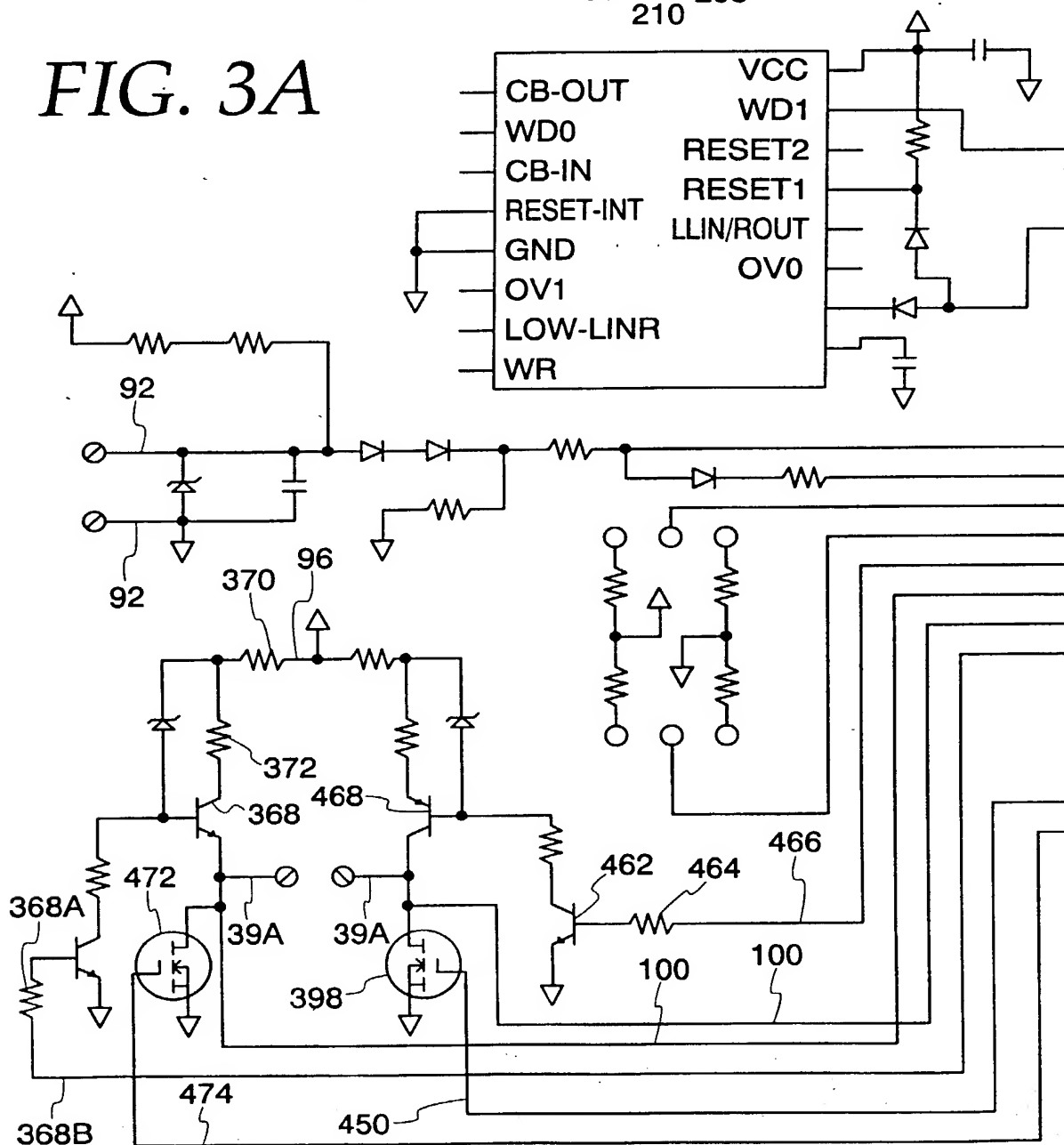
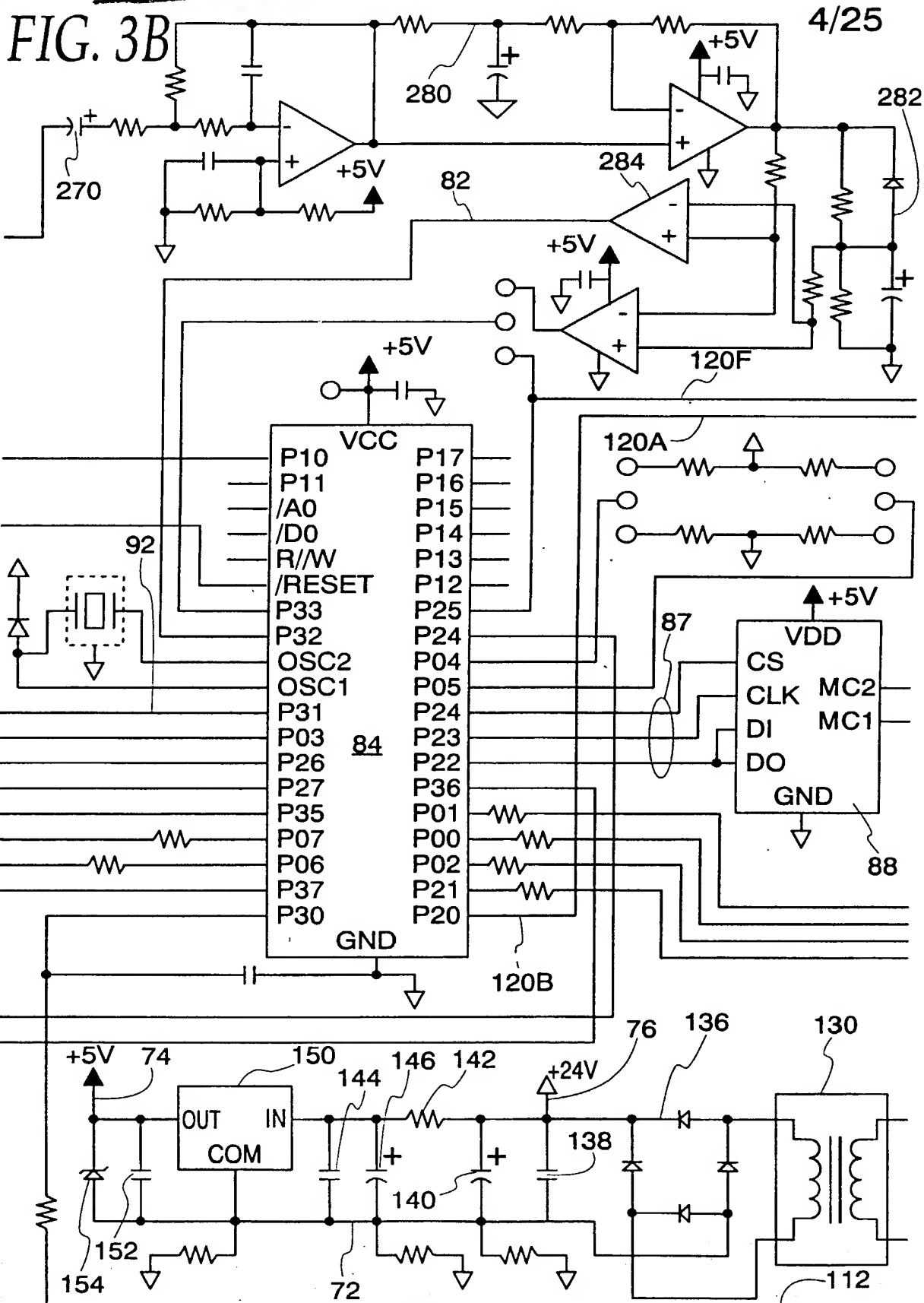


FIG. 3A







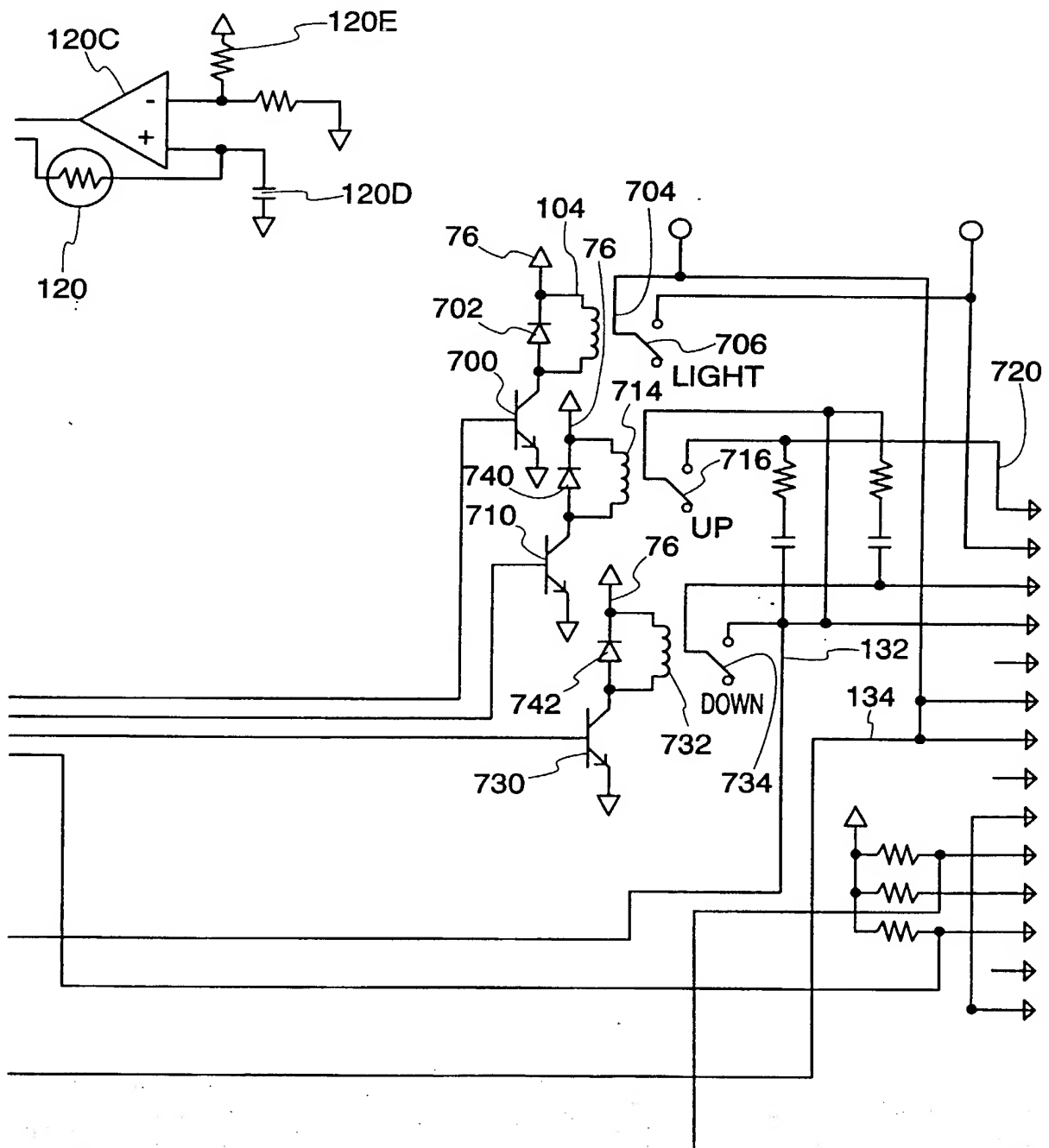
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FIG. 3A FIG. 3B FIG. 3C

FIG. 3C



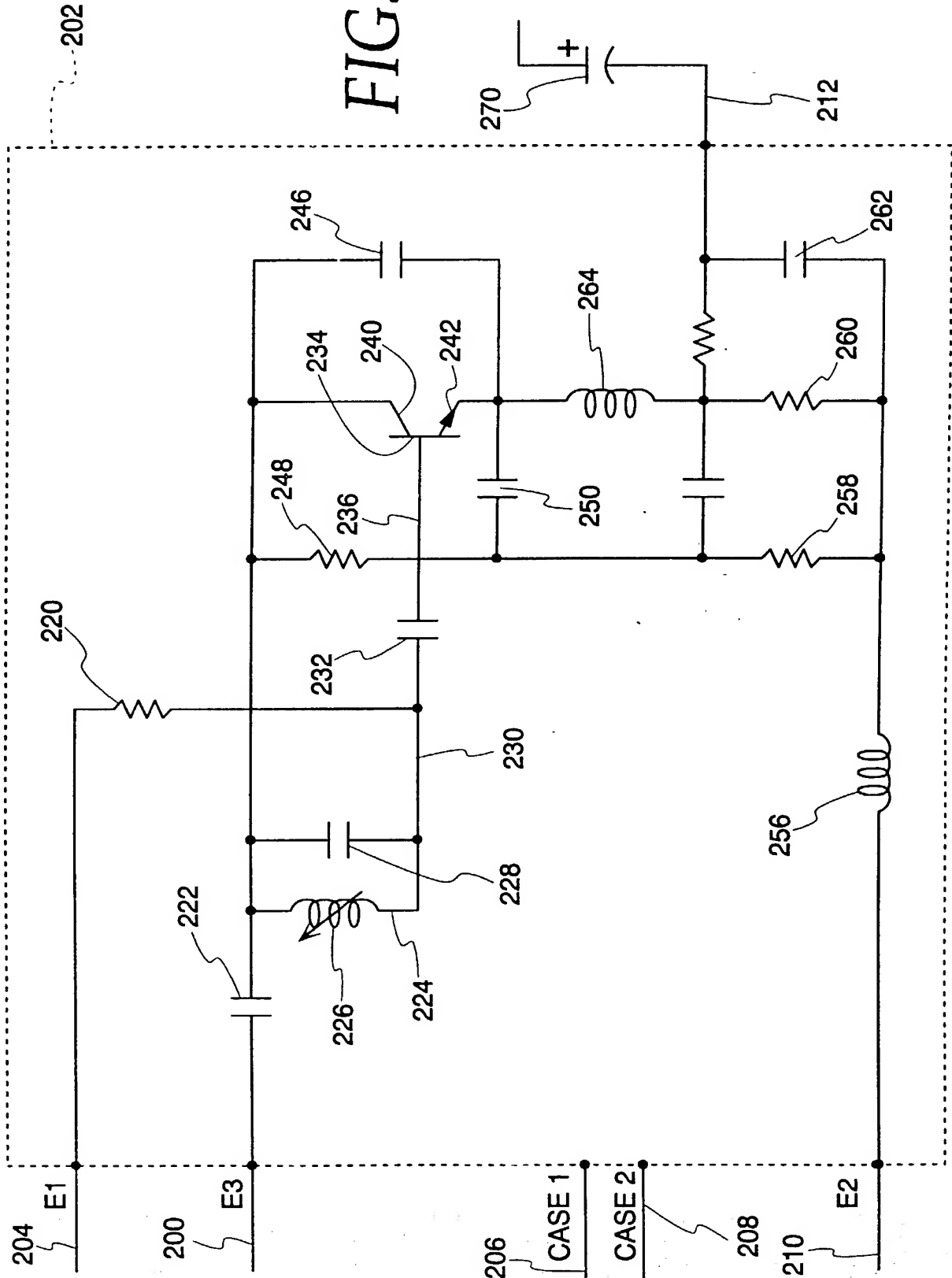


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Sheet 6 of 251 Serial No. 10/083,905
10/137,580 Docket No. 72928/5569
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Kenneth H. Samples (312) 577-7000

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FIG. 4

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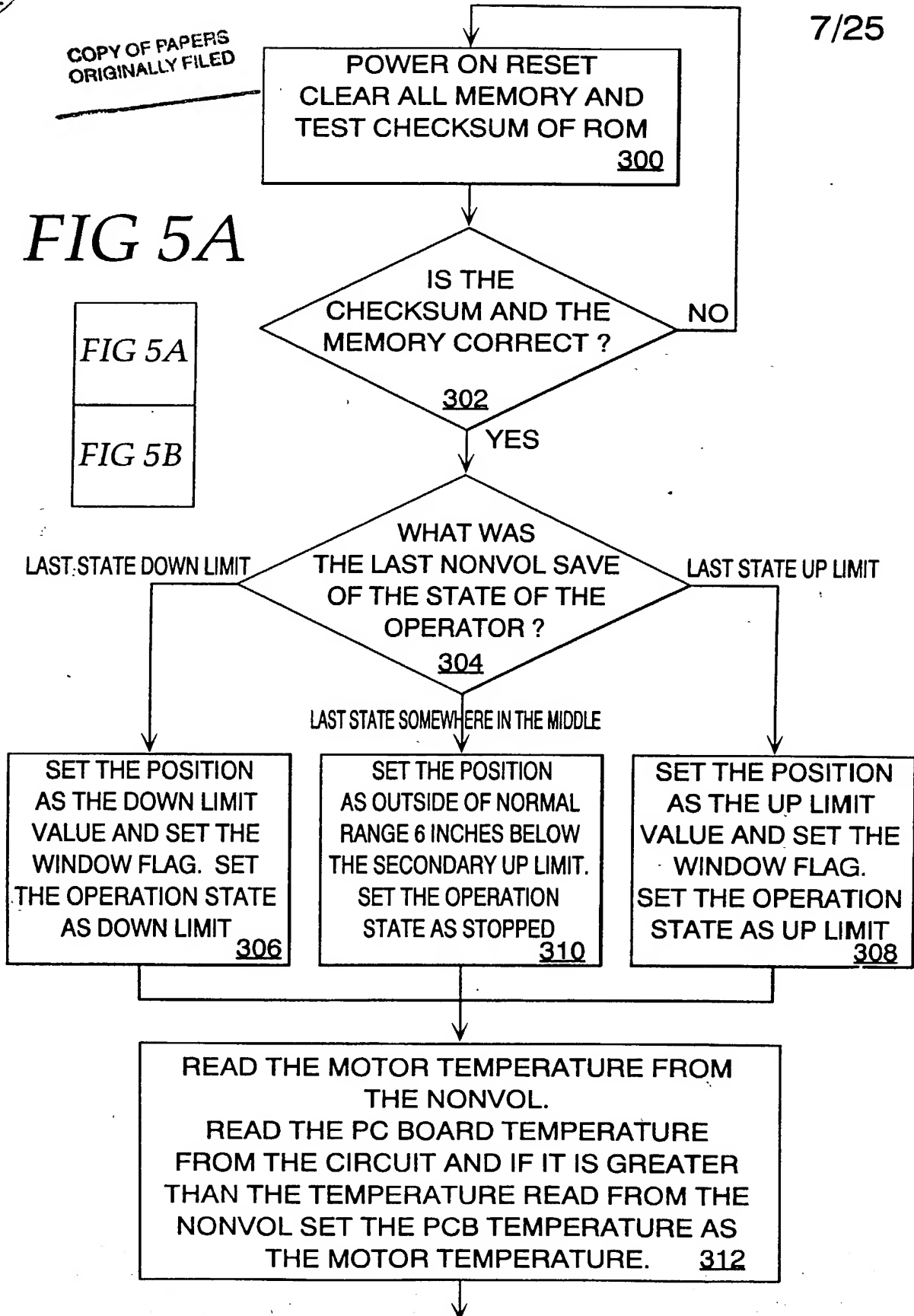




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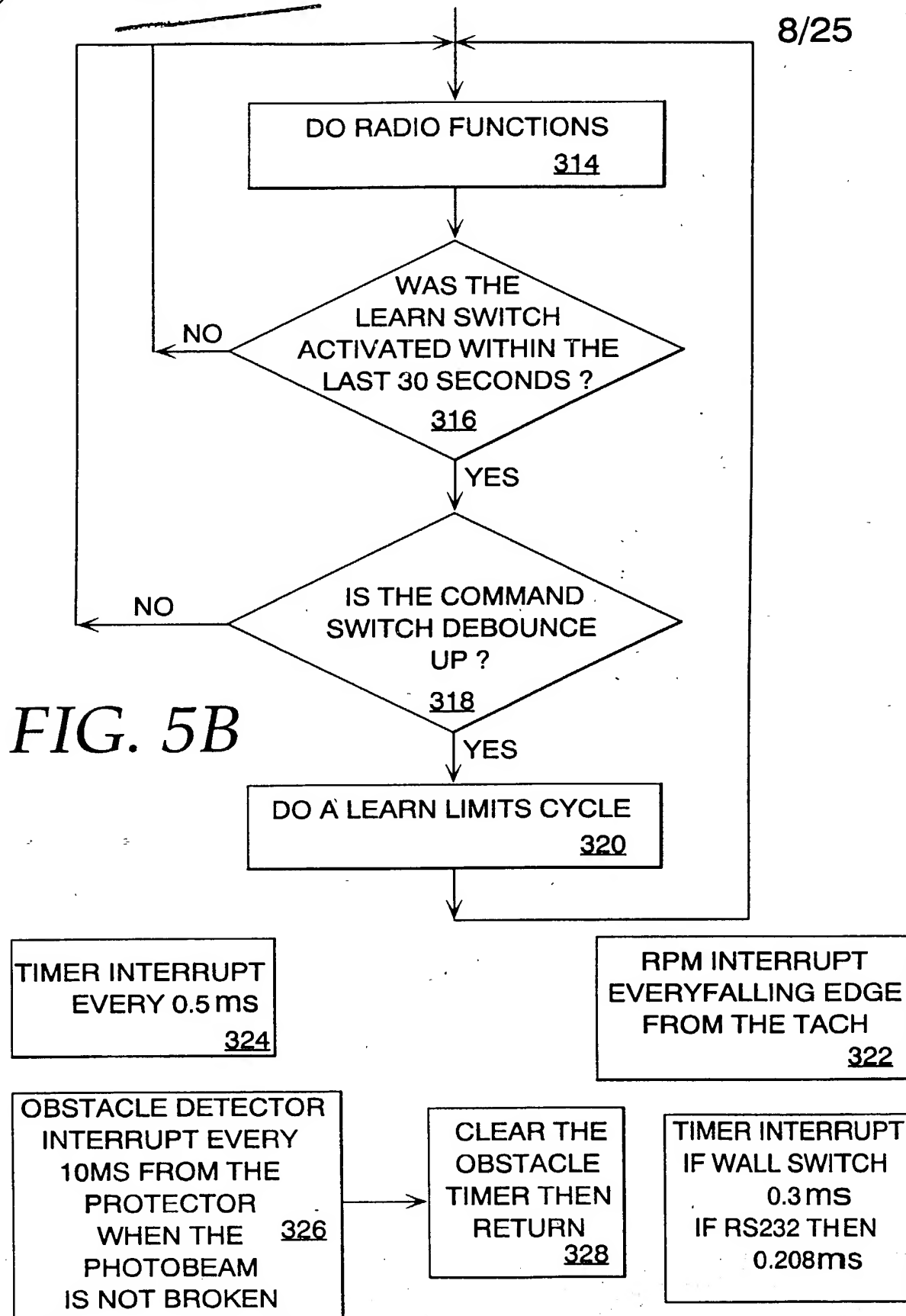
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FIG 5A





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FIG. 6A
FIG. 6B
FIG. 6C
FIG. 6D
FIG. 6E
FIG. 6F
FIG. 6G

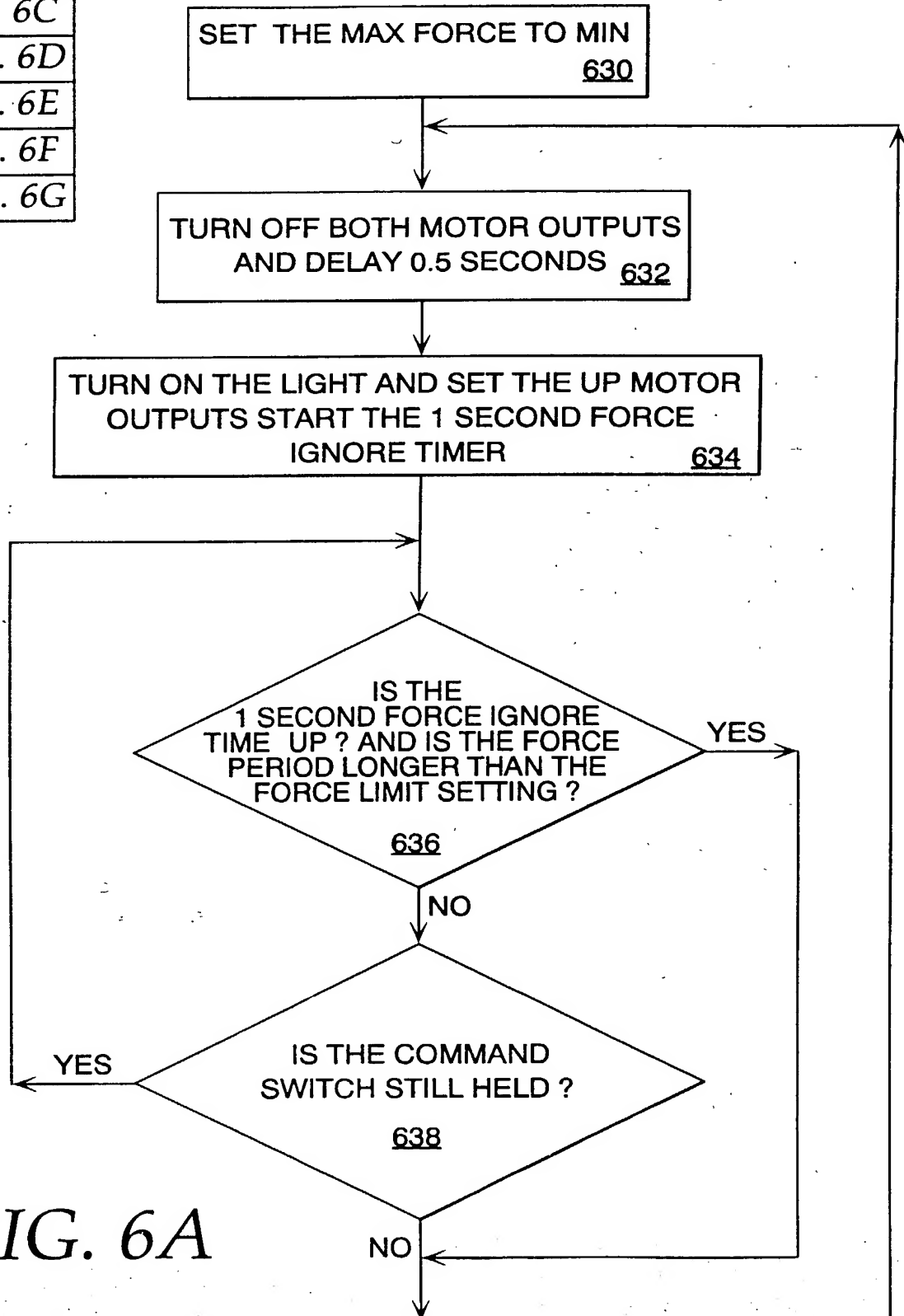


FIG. 6A



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TURN OFF BOTH MOTOR OUTPUTS AND DELAY 0.5
SECONDS AND CLEAR THE POSITION COUNTER
640

TURN ON THE DOWN OUTPUT AND START THE 1
SECOND FORCE IGNORE TIMER
641

IS THE COMMAND
SWITCH SET AGAIN ?
642

YES

INCREASE
THE FORCE
LIMIT
SETTING
644

NO

IS THE ONE SECOND FORCE IGNORE TIMER DONE THEN
SAVE THE MAX FORCE PERIOD (DELAYED 32 RPM
PULSES) AS THE DOWN FORCE
646

TAKE THE POSITION
COMPLEMENT IT AND
SAVE IT AS THE UP
LIMIT THEN CLEAR
THE POSITION
COUNTER. SET
PASS POINT
650

YES

ARE WE AT
THE PASSPOINT ?
648

NO

IS THE
1 SECOND FORCE IGNORE
TIMER UP ? AND IS THE FORCE
PERIOD LONGER THAN THE
FORCE LIMIT SETTING ?
652

YES

NO

FIG. 6B

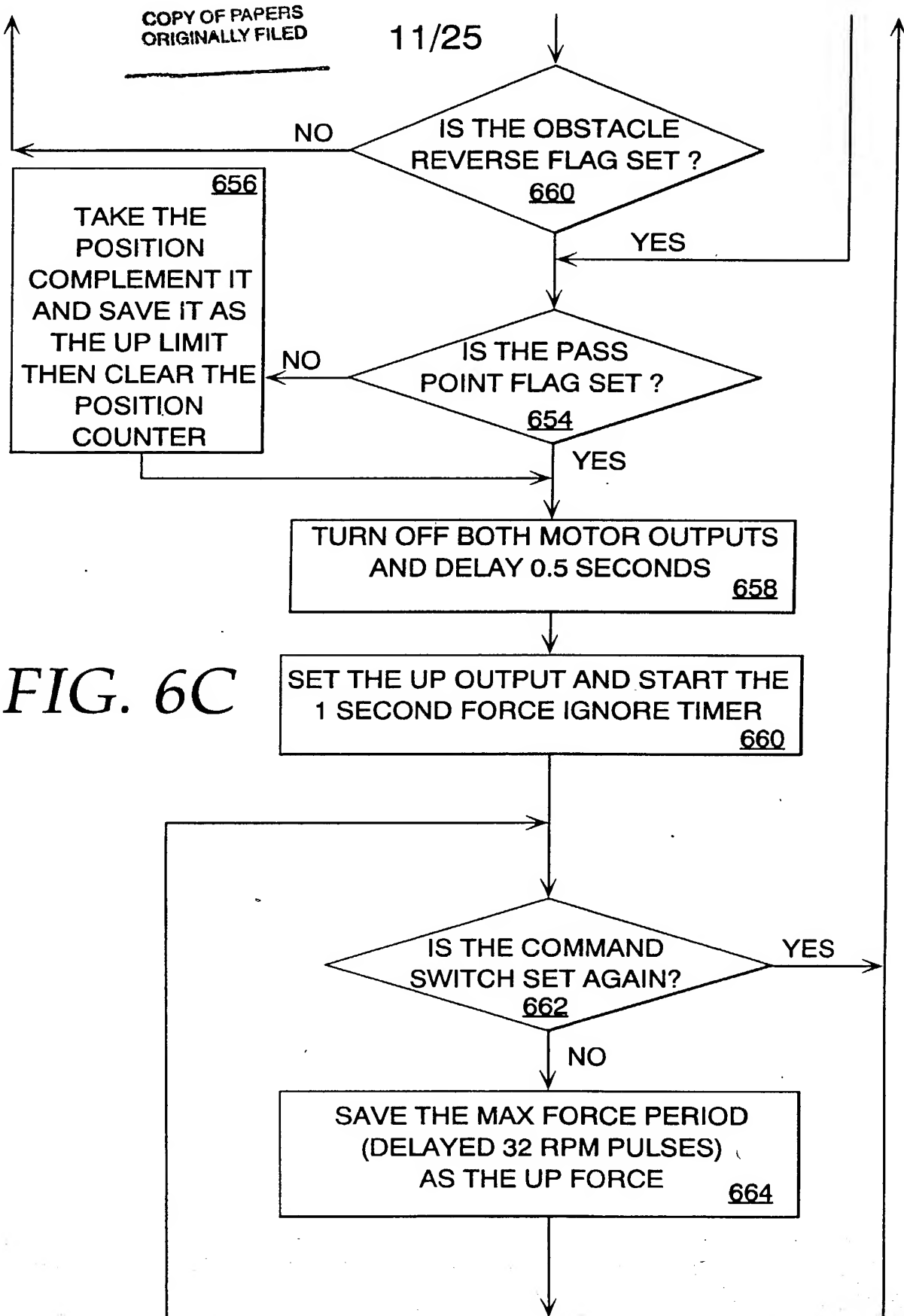


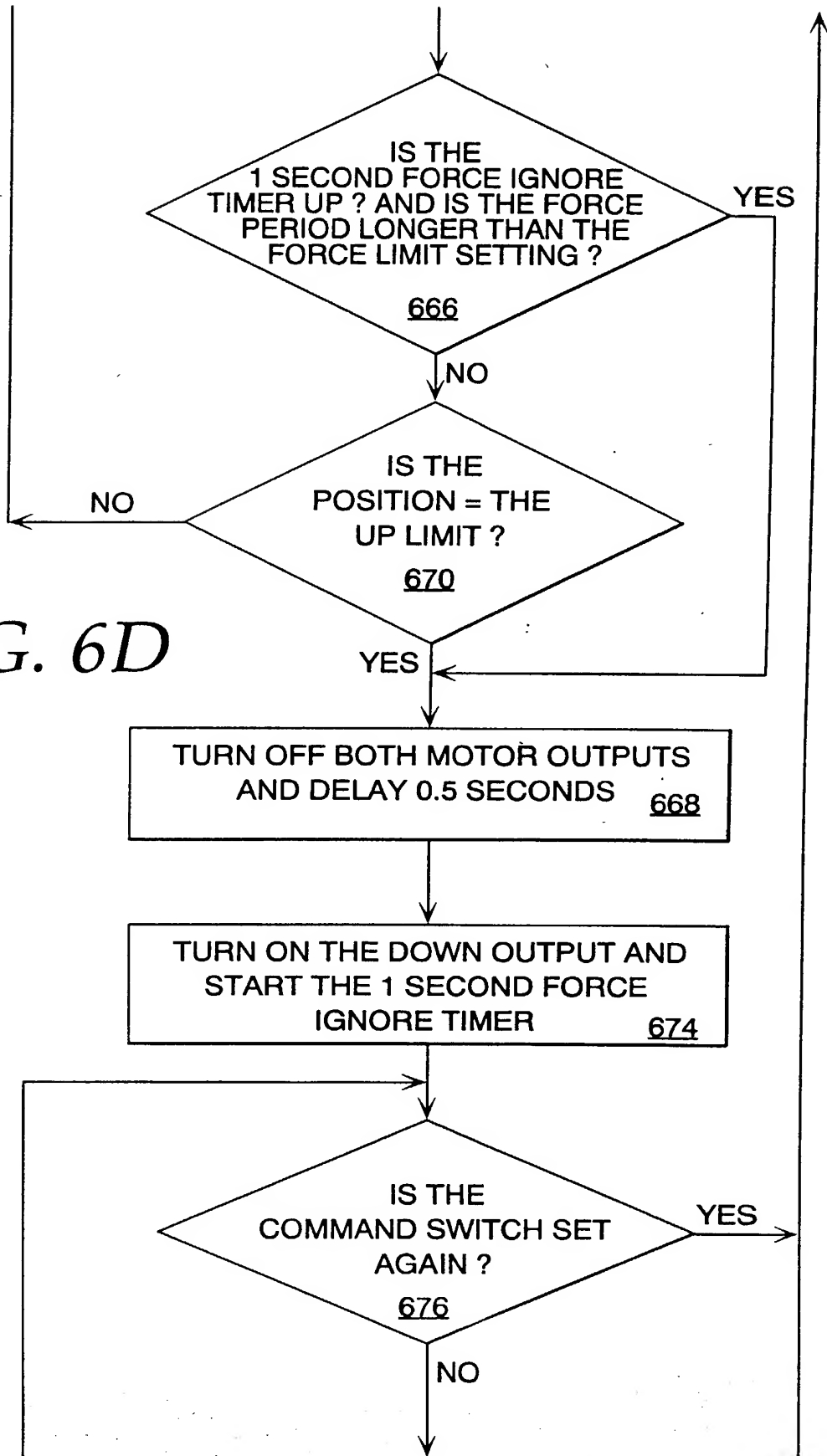
FIG. 6C



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FIG. 6D

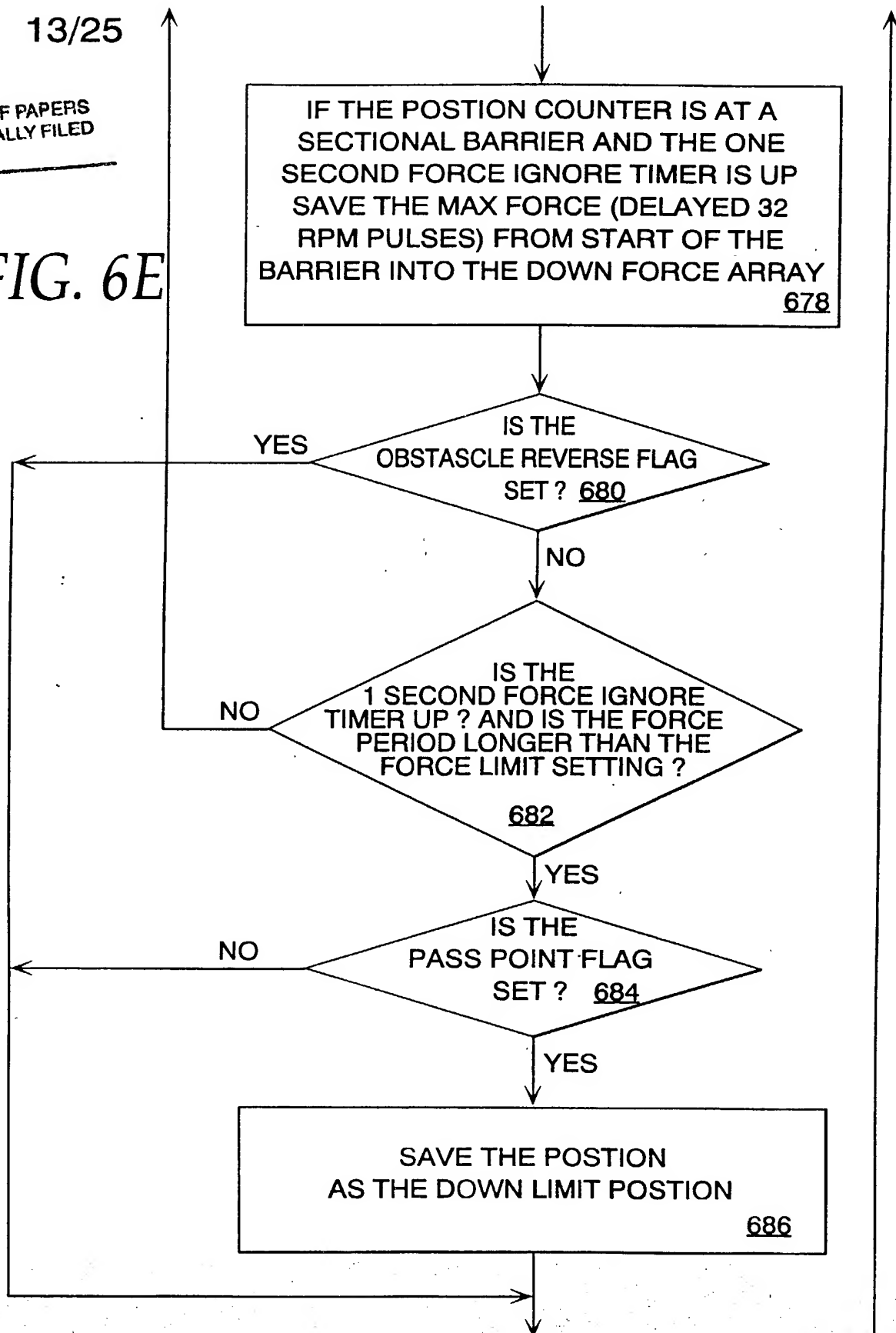




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FIG. 6E

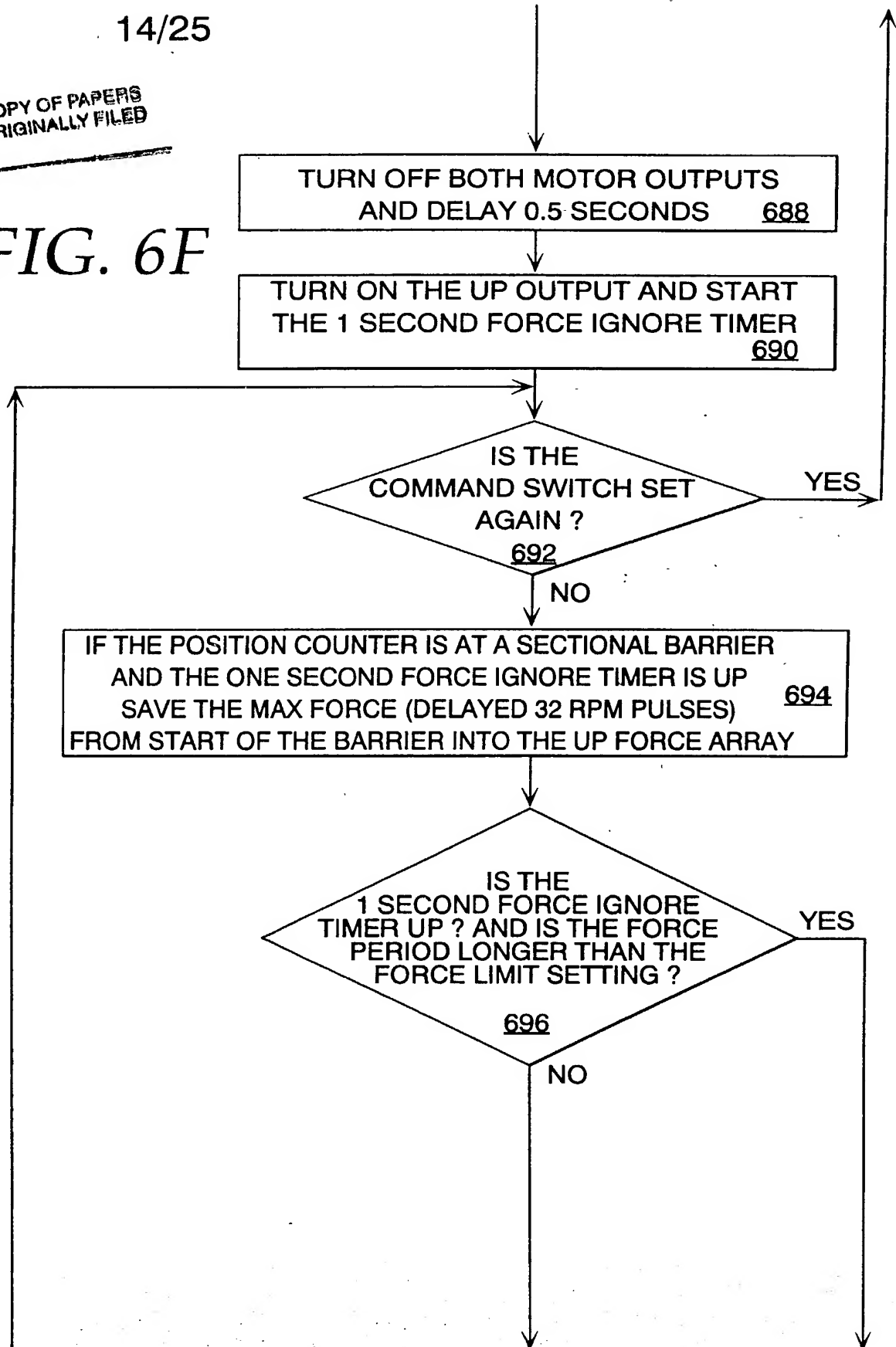




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FIG. 6F



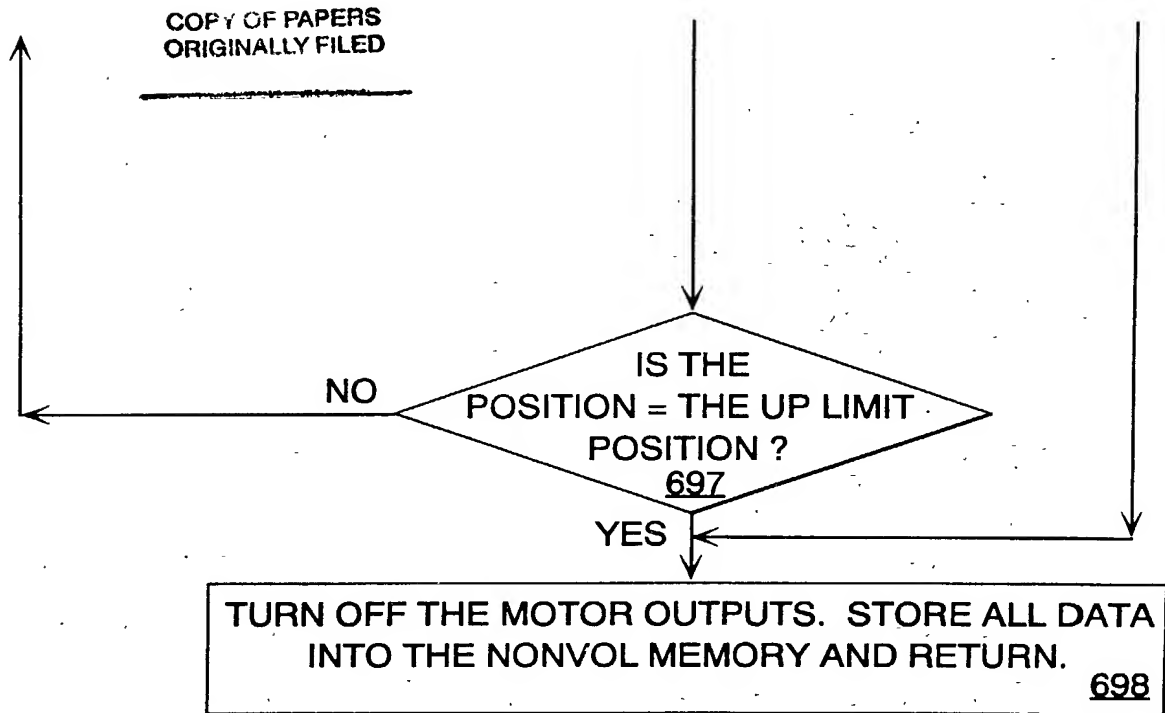


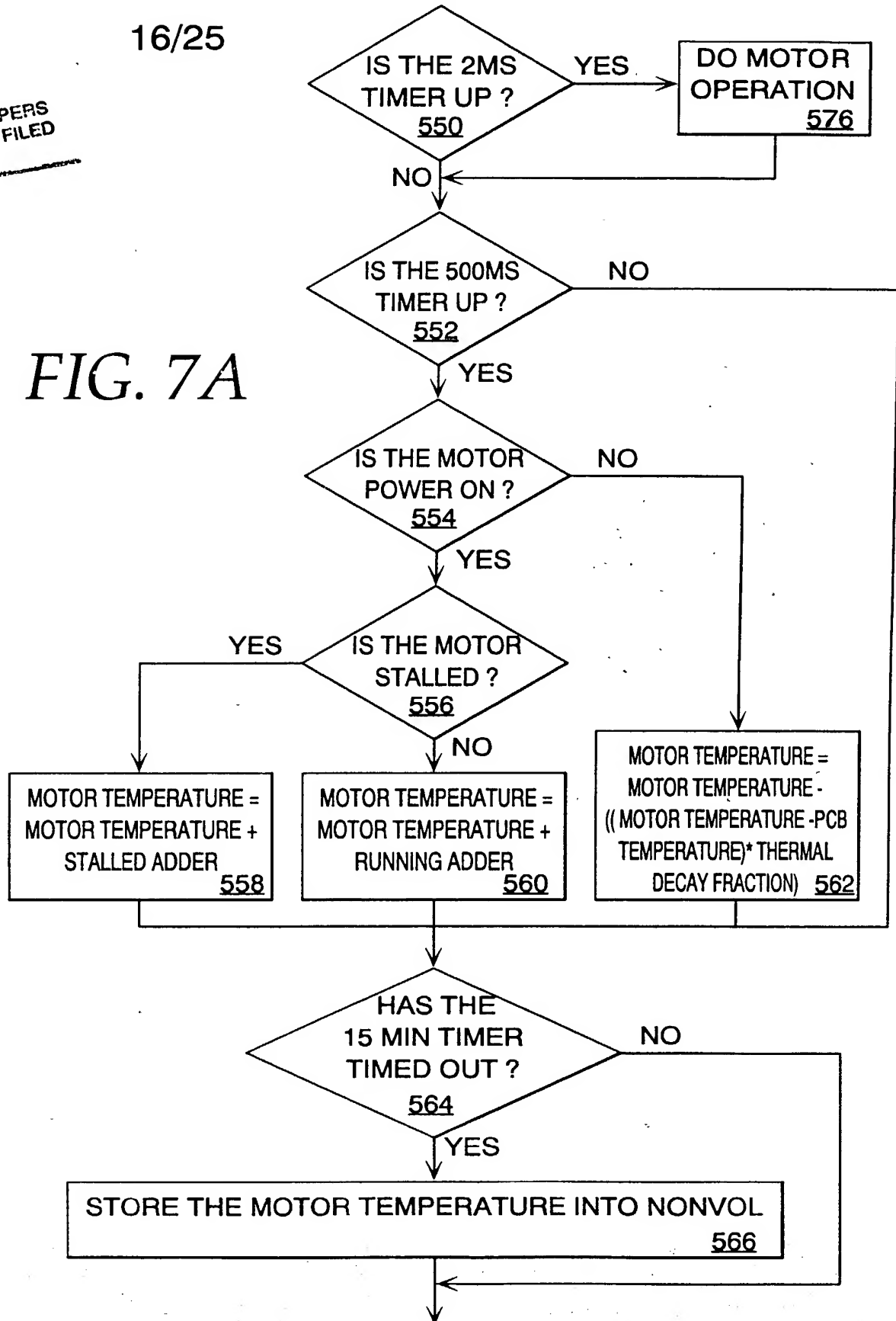
FIG. 6G



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FIG. 7A





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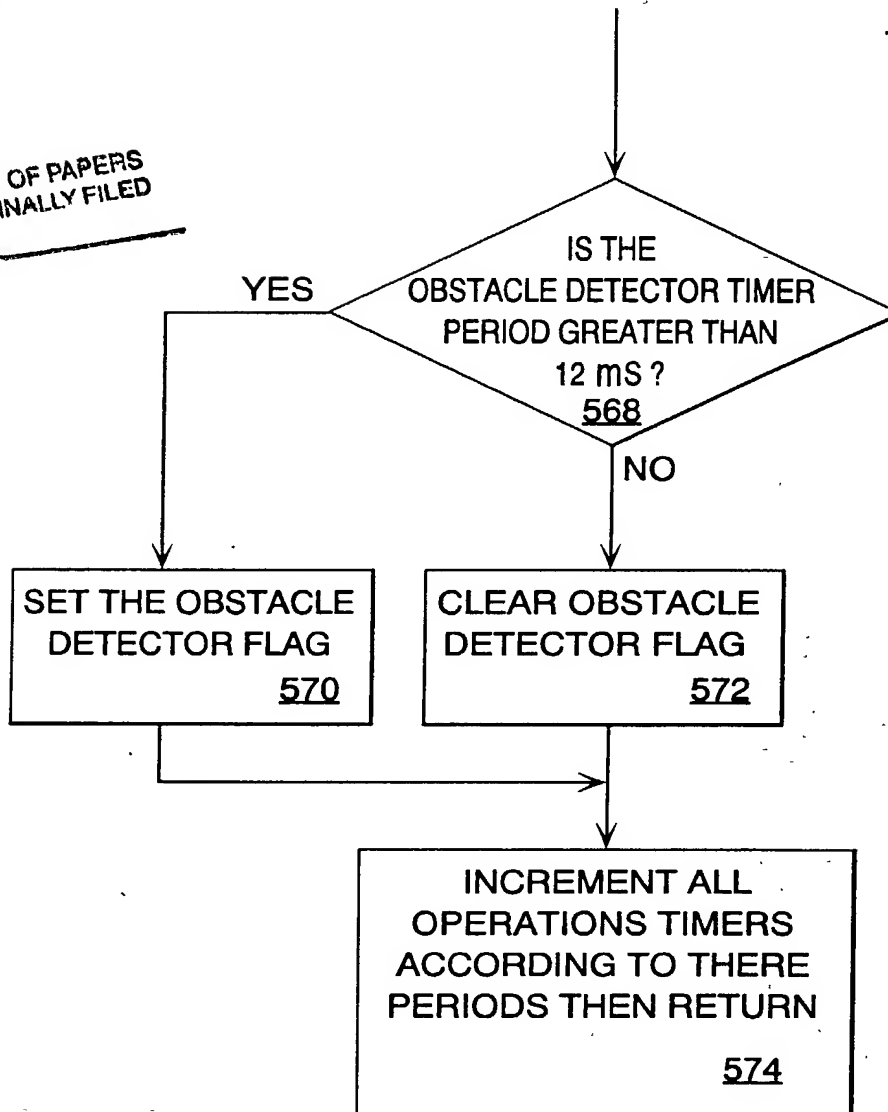


FIG. 7A

FIG. 7B

FIG. 7B

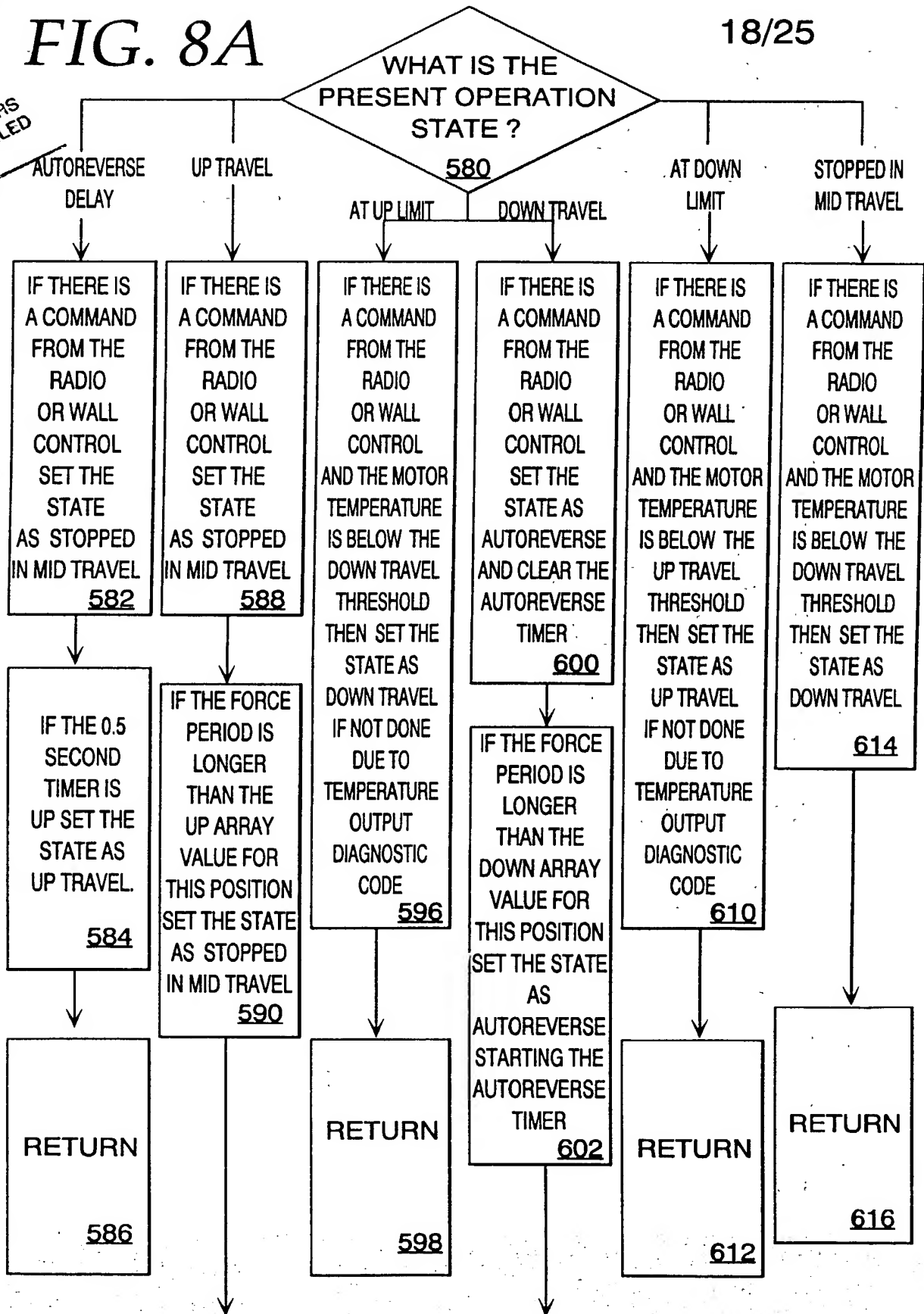


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FIG. 8A

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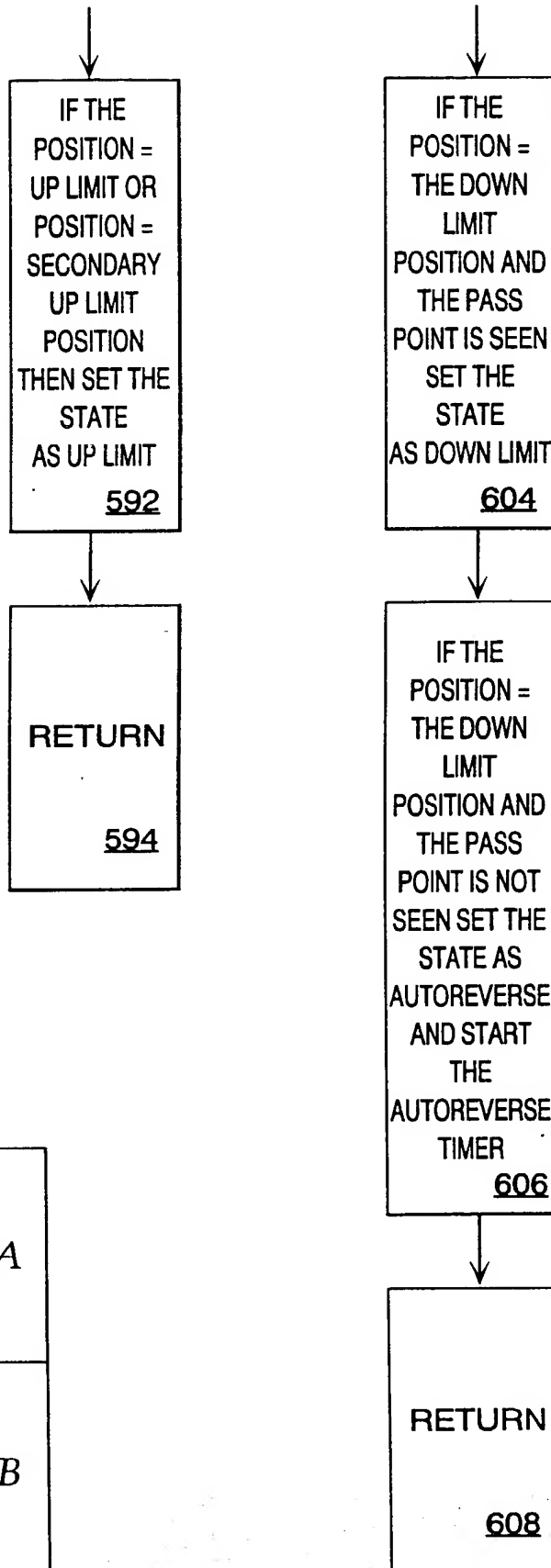


FIG. 8B

FIG. 8A

FIG. 8B



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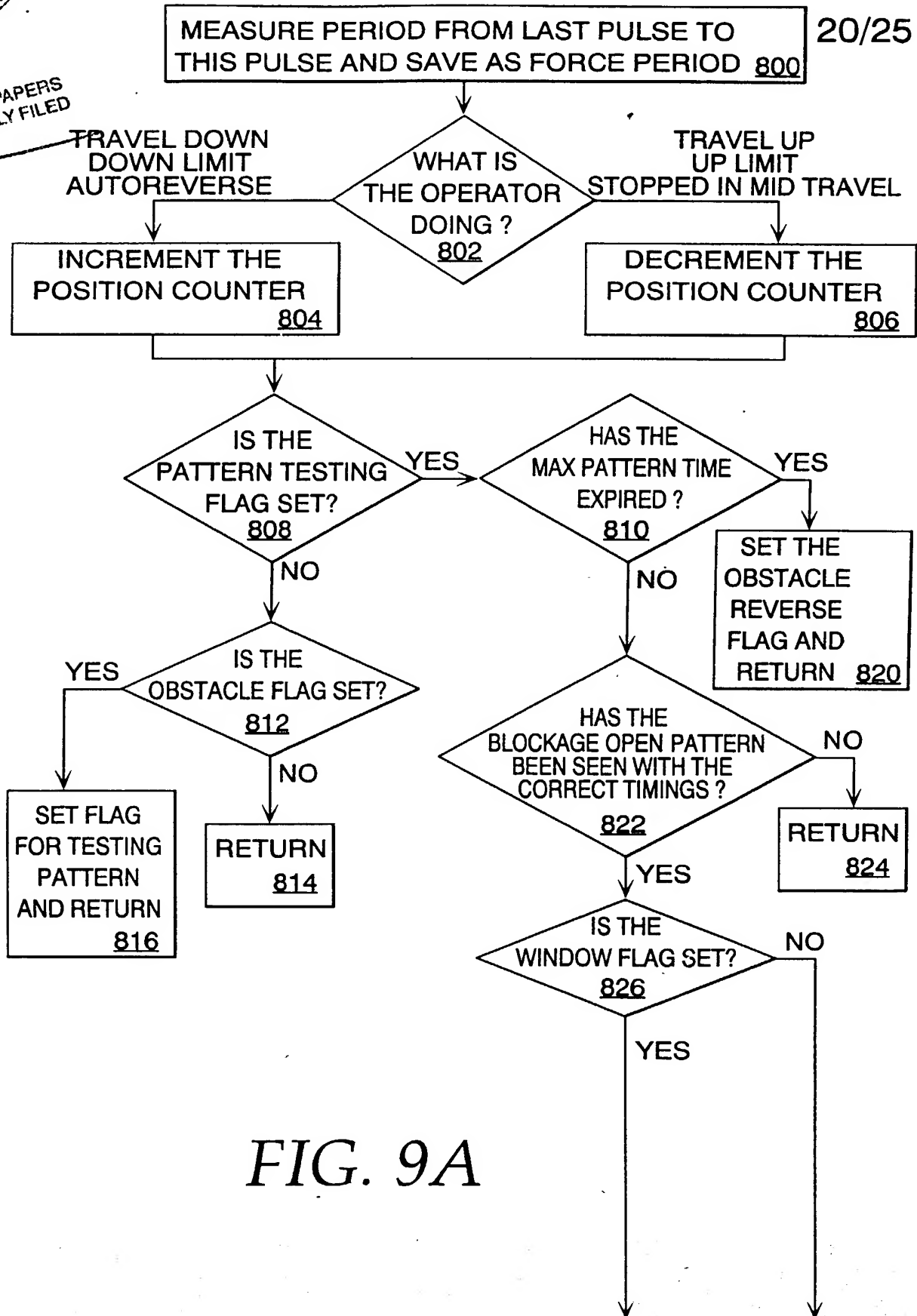


FIG. 9A



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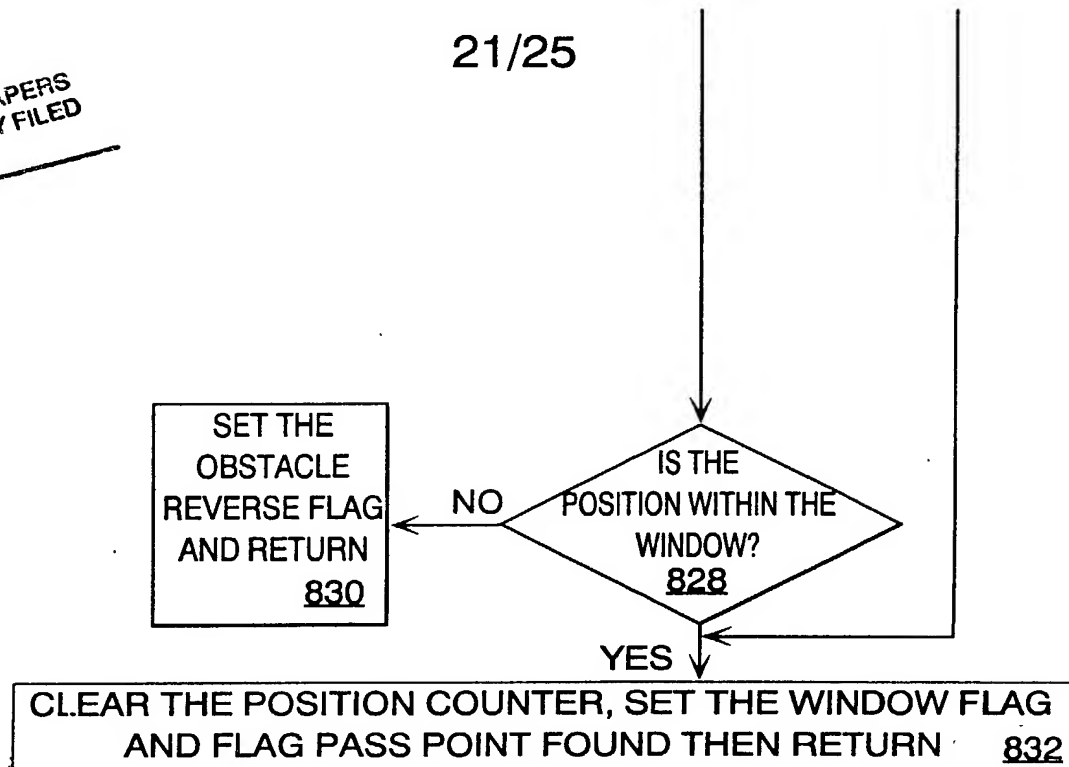


FIG. 9B

FIG. 9A

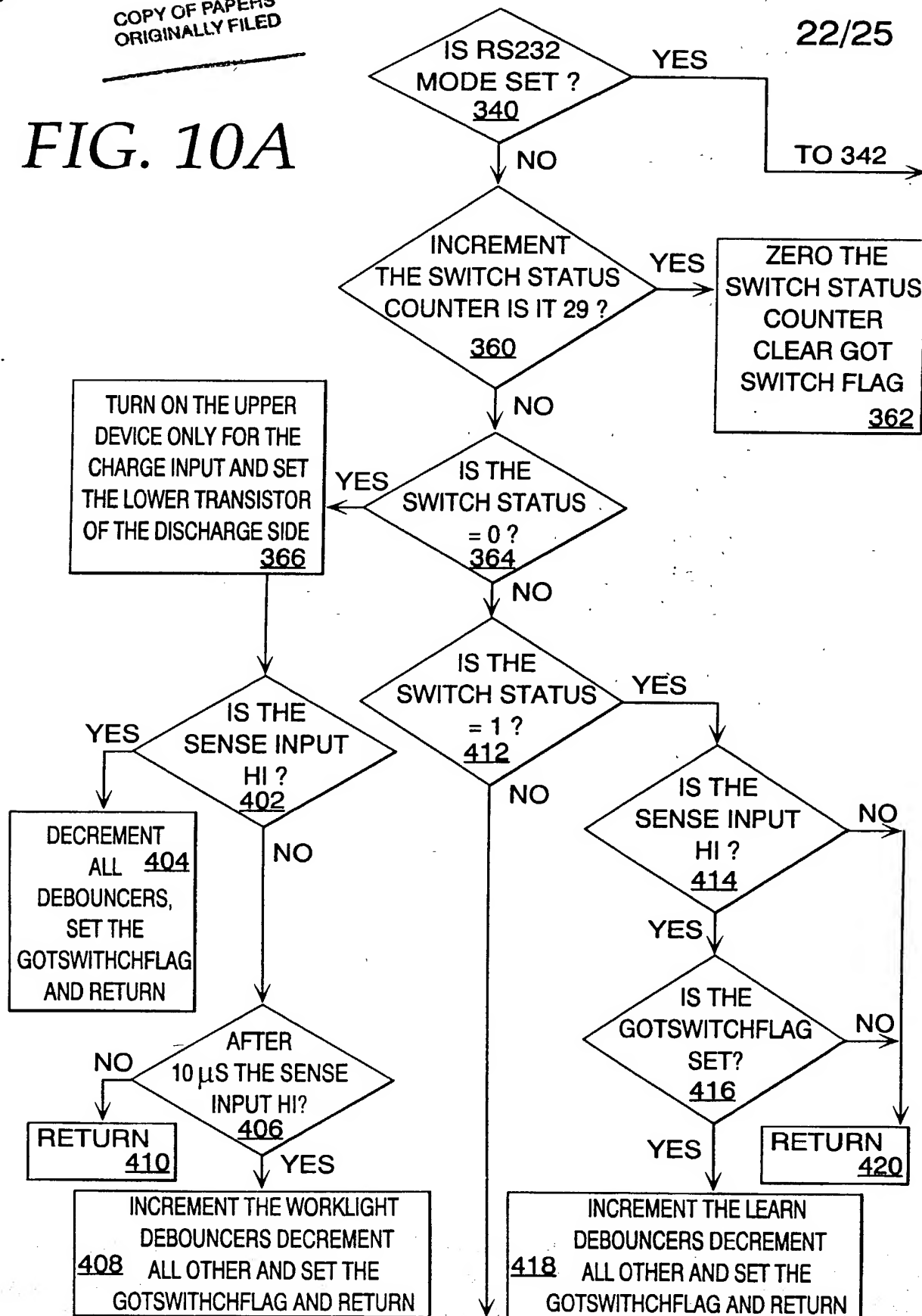
FIG. 9B



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FIG. 10A

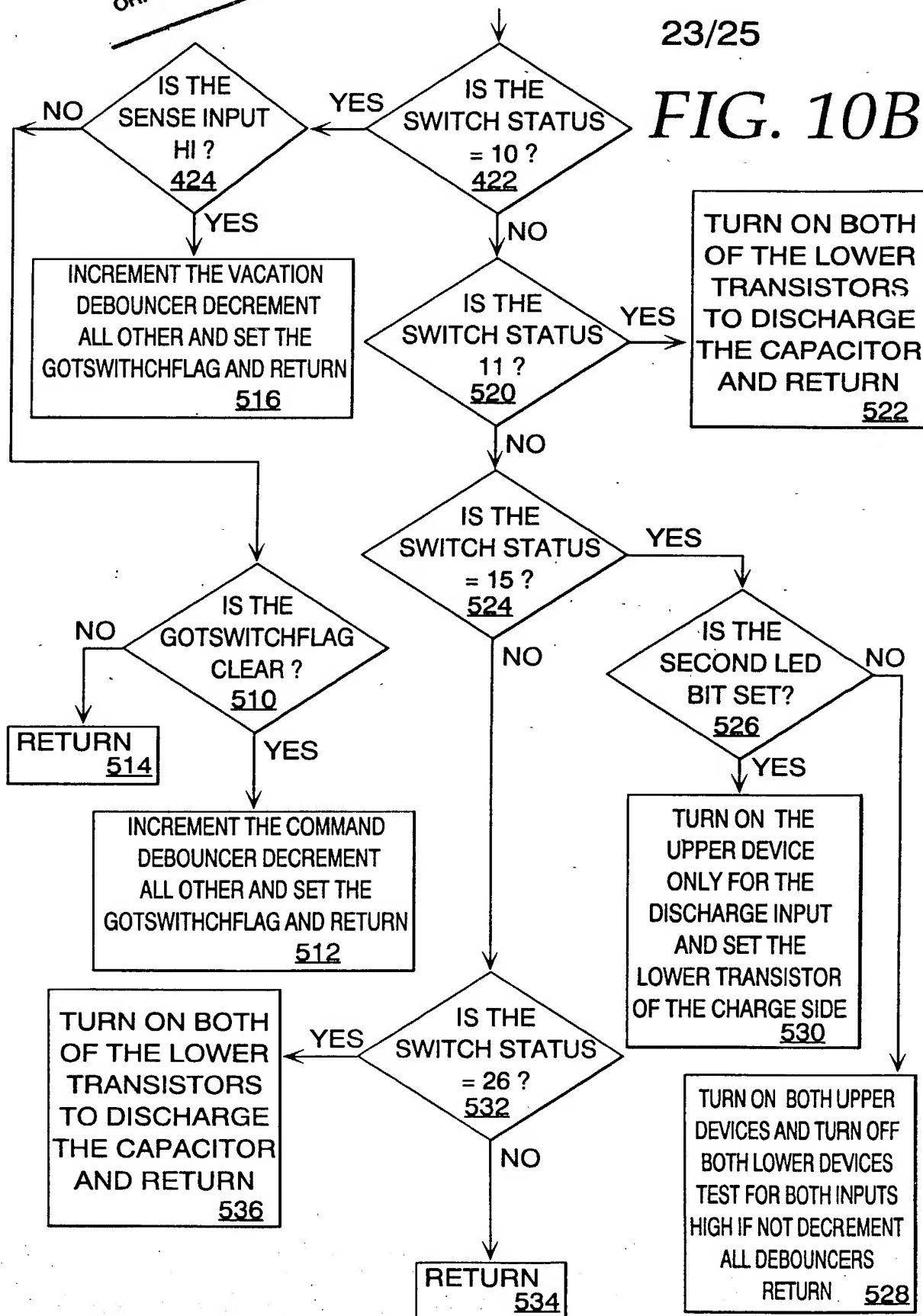




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FIG. 10B





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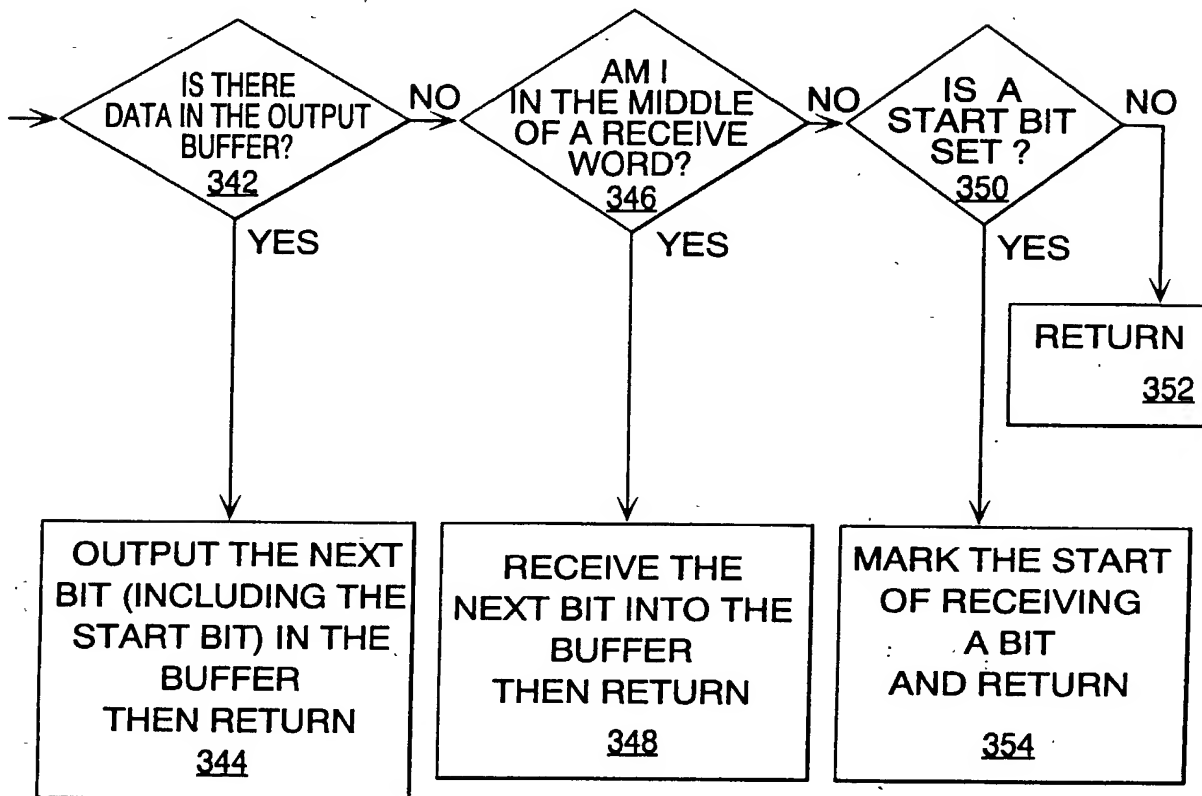
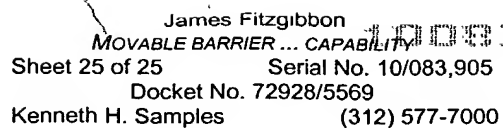


FIG. 10C

FIG. 10A	FIG. 10C
FIG. 10B	



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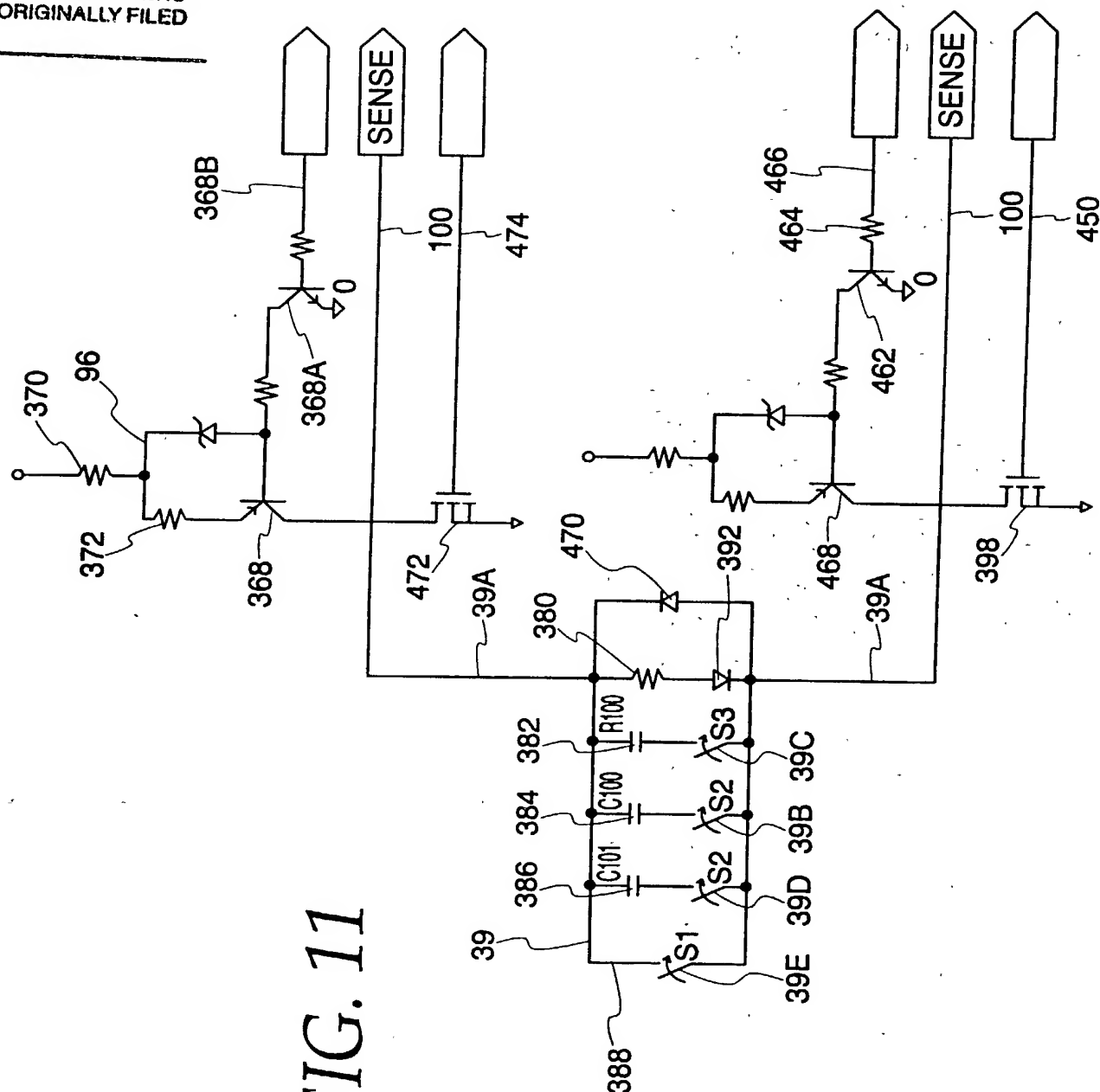


FIG. 11